



a 10 element 144MHz LFA Yagi



Description

Available through WiMo Germany and DX Engineering in the USA - for Direct factory supply, Email us for pricing and time lines.

www.dxengineering.com - www.wimo.com

A 10 element Very Low Noise Yagi for serious DX, weak signal and EME applications



2 x 10el 144MHz LFA Yagis

The G0KSC LFA (Loop Fed Array) Yagi has quickly become 'the one to have' if you are looking for serious weak signal work on the bottom of the 2m band. The LFA Yagi has been specifically designed to ensure the lowest levels of unwanted noise are received. The compliment of a tight, highly suppressed pattern and closed loop fed system ensure everything from rain static to man-made noise are heavily reduced.

The LFA is especially effective for EME where very low noise antennas are required and many hours development have been spent ensuring the highest levels of performance have been achieved in an antenna that is not affected by wet weather conditions. As a single, double and 4 stack system, the LFA Yagi is the one to have.

Our antennas are constructed with the best quality materials in order the best mechanical construction can be achieved, not the cheapest and most profitable! Even a digital caliper is used (with an accuracy of .01mm) to measure the elements during production to ensure they are within 0.2mm of what they should be, this ensures they work as well as our software model predicts.

1. **Marine grade Stainless Steel Fittings***
2. **Original Stauff insulator clamps**
3. **Mill finished for highest levels of accuracy**

If you are looking for the best of the best from both a performance and mechanical construction perspective then look no further, you have come to the right place!

Performance

Gain: 14.71dBi @ 144.100MHz

Gain: 14.73dBi @ 144.300MHz

F/B: 32.20dB @ 144.100MHz

F/B: 28.73dB @ 144.300MHz

Peak Gain: 14.76dBi

Gain at 10m above ground: 20.56dBi

Peak F/B: 32.54dB

Power Rating: 3kw

SWR: Below 1.1:1 from 143.900MHz to 145.200MHz

Boom Length: 5.254m

Weight: 3.68kg / 7.06lbs

Turning Radius: 2.653m / 8.7ft

Wind Loading: 0.11 Square Metres / 1.22 Square feet

Wind Survival: 235KPH / 146MPH

Other options available if higher wind loading/survival is required.

Stacking Distance Vertically: 2.3-3.4m (best trade-off 3.2m)

Stacking Distance Horizontally: 2.3-3.5m (best trade-off 3.4m)

Following figures calculated at 144.300MHz

2 Stacked Vertically @ 3.0m Gain: 17.59dBi

2 Stacked Vertically @ 3.2m Gain: 17.69dBi

2 Stacked Vertically @3.0m F/B: 29.72dB

2 Stacked Vertically @3.2m F/B: 29.53dB

2 Stacked Horizontally @ 3.15m Gain: 17.55dBi

2 Stacked Horizontally @ 3.15m F/B: 28.87dB

2 Stacked Horizontally @ 3.4m Gain: 17.65dBi

2 Stacked Horizontally @ 3.4m F/B: 29.22dB

4 Antennas 3.0m V x 3.15m H Gain: 20.46dBi

4 Antennas 3.2m V x 3.4m H Gain: 20.65dBi

Sky Temperature: 229.6 Kelvin @ 144.100MHz

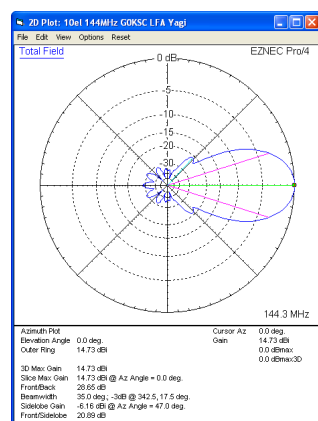
G/T Figure: -2.96dB @ 144.100MHz

Specification

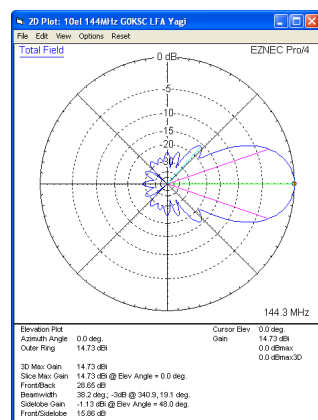
This antenna has all parasitic elements made from 1/4 inch aluminum rod. The LFA loop is constructed from 4 pieces of aluminum tube. The sections in-line with the parasitic elements are 1/2 inch while the end sections of the loop are 3/8 inch allowing the user to adjust the loop for best SWR. All elements are fully insulated from the boom held in place by high quality UV resistant, **RF neutral insulators** which in-turn are held to the boom via **Marine grade** stainless steel fixings and fittings.

The boom is **1.25 inch square (31.75mm)** and a boom guy is supplied with this antenna. Optional boom upgrade at checkout.

If you want an antenna to last and perform in all weathers without SWR or bandwidth shifting, this is it.

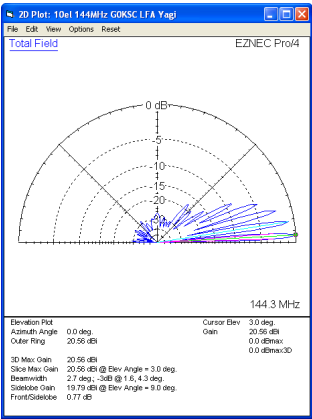


Azimuth Plot

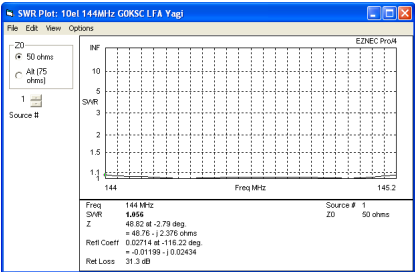


Elevation Plot

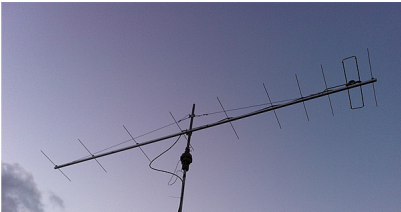
144MHz to 148MHz Yagis: 10 element 144MHz LFA Yagi



Single antenna 10m above average ground



SWR



The InnovAntennas 10el 144MHz LFA at VK3VXD

Manufactured the right way, not the cheapest way!

*Where possible marine grade stainless steel components are used.
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